Comments on Draft 1 Version 2.0 ENERGY STAR External Power Supplies Specification

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Comments:

Hi Robin:
I'm R&D adapter team manager of Hipro Electronics, a power supply manufacturing company located in Taiwan. I have some comments over EPS 2.0 draft as below:

1. For Power factor >0.9 requirements, I think it is more helpful in energy saving for countries with AC line voltage =230V, this is because for 110V input voltage, the loss at active PFC stage is much higher than 230V input, I doubt if the saved energy from PF can recover this first stage converting loss at 110V input, also, the cost is a concern, basically, with active PFC added, the cost up will be around 20-30%, this will impact not only to power supply vendor, but also to IT companies.

2. For the average efficiency>87%, it looks comfortable for high voltage output such as 19-20V for NB use, but currently, there are increased request of adapter for PC use from our customer, and I think it will be a tendency, this kind of adapter for PC is asking 12V output with pretty high current, 15-20Amps in general, it make impossibility t meet 87% average efficiency without high end power components, for this reason, maybe EPA can consider to define separate efficiency level for low voltage, high current output adapter.

Thanks

Best regards
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